DRAINAGE PLAN NARRATIVE (Revised) NPDES PERMIT APPLICATION



(Revision 9/27/2016, Updates to Watershed B & Quarry Pit Sump QP-1) (Original 9/12/2016)

AGGREGATES USA (TRI-CITIES AIRPORT), LLC QUARRY SEP 2 8 2016

Drainage Map

The Drainage Map (Map 3) is drawn on the same 1-inch = 200-foot base map used for the Site-Property Map (Map 2). The map is in Section 10. Data plotted on this map and additional information is as follows:

A. Area to be disturbed including topsoil, soil placement and stock	piles:	the statement to the second se
Stockpile areas are shown on the Drainage Map as orange hatche	APPROVED ed areas.	H
	SEE DEPARTMENT OF ENVIRONME	INT AND CONSERVATION FOR MINING SECTION
B. Present drainage patterns:		1102/25/11 :3TAC
Present drainage patterns are shown with dark blue arrows and the	ne letter "P" on the Dra	ainage Map:

The drainage map is divided into a series of non-interconnected drainage basins, shown by purple dashed lines and lettered "A" through "P". Data for these basins is shown in Table 1. These data include area of the drainage basin in acres, area of the basin within the affected/permitted boundary, and area within the basin to be disturbed by mining or associated activity within the next five years. Also determined were length of travel (Lt), maximum height of travel (Ht), the expected weighted runoff coefficient (C) at the end of the five year period, and the time of concentration (Tc) expected at the end of the five year period. This data was used with a computer program based on SCS-TP-149 - "A Method for Estimating Volume and Rate of Runoff in Small Watersheds".

C. Expected drainage patterns, during mining and after reclamation, including location of discharge point:

Not all of the watersheds are in Aggregates USA's affected area. In addition, several of these watersheds are not expected to be impacted by mining and associated activity in the next five years.

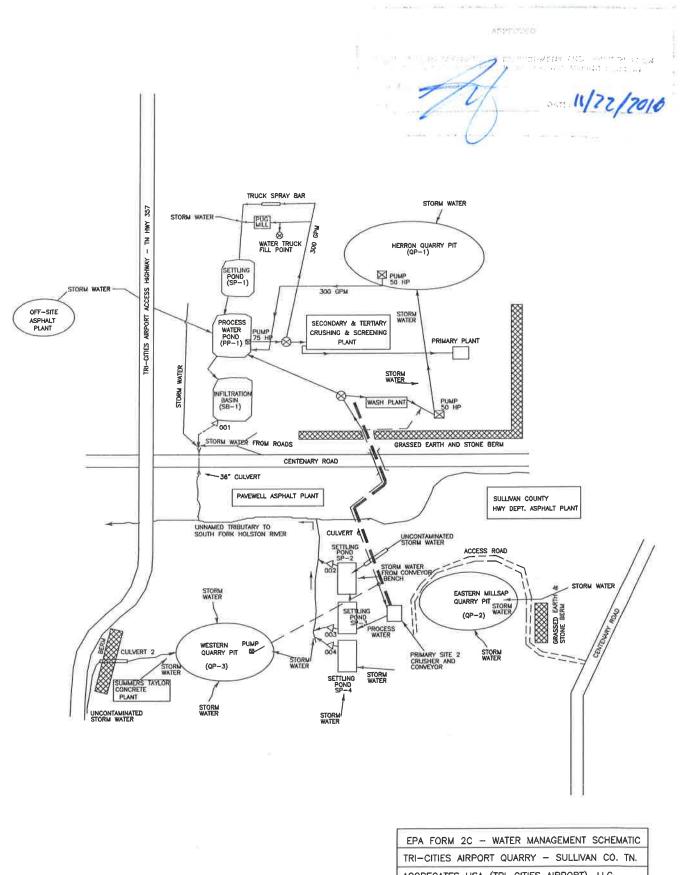
Expected drainage patterns for the next five years are shown with light blue arrows and the letter "M" on the Drainage Map. Quarry life is expected to exceed 20 years, therefore final drainage patterns after reclamation are impossible to determine with certainty at this time, however, potential final drainage patterns are shown with green arrows and the letter "R". Discharge and monitoring points 001, 002, 003, and 004 are shown with a red triangle.

Only drainage basins A, B, D, E, H, I, K, L, M, N, and P are affected or expected to be affected by mining and associated activities of Aggregates USA, LLC in the next 5 years. Their characteristics are as follows:

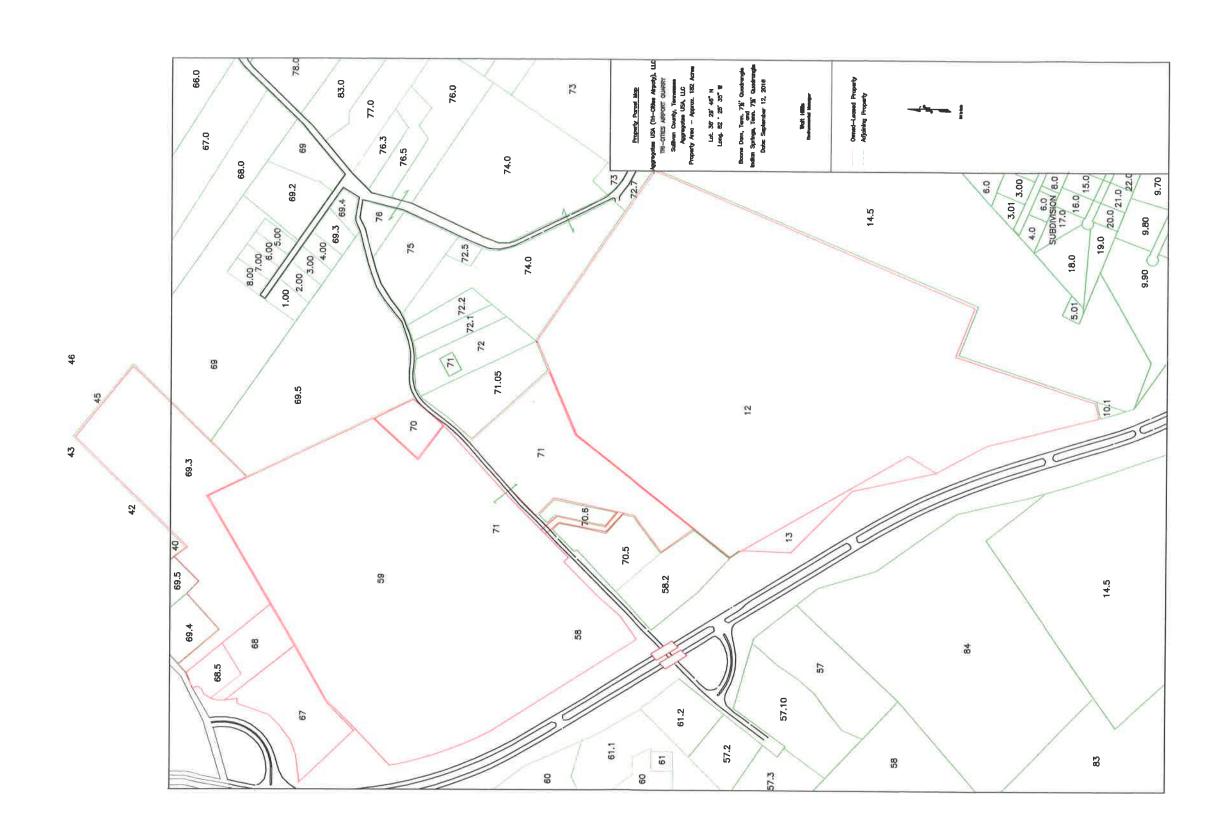
Watershed "A"

Watershed A is north of Centenary Road and contains about 4.47 acres. The watershed contains the undeveloped area on the eastern margin of the "old" mining area and grassed out slope of the boundary berm. Of the 4.47 acres, 0.86 acres is within the permit area, an old roadway. Water from this watershed is rainfall runoff and is directed into a valley and to the unnamed tributary.

4.47 acres. The watershed contains the rea and grassed out slope of the boundary an old roadway. Water from this watershed ed tributary.



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	TRUCK SPRAY BAR STORM WATER
HWY 357	STORM WATER BUT & & & & & & & & & & & & & & & & & & &
<u> </u>	WATER TRUCK PINT PIT (QP-1)
HIGHWAY	SETTLING POMD SO HP
STORM WATER S	300 GPM
ASPHALT PLANT	PROCESS WATER PUMP 75 HIP PLANT STORM WATER PLANT PLAN
TR-CIIIS	(PP-1) PRIMARY PLANT
<u> </u> <u> </u>	STORM WATER WATER WASH PLANT SO UP
	BUSIN (SB-1)
	STORM WAJER FROM ROADS GRASSED EARTH AND STONE BERM
	CENTENARY ROADS GRASSED EARTH AND STONE BERM
	ONE CULVERT
	PAVEWELL ASPHALT PLANT SULLIVAN COUNTY HWY DEPT. ASPHALT PLANT
	UNNAMED TRIBUTARY TO SOUTH FORK HOLSTON RIVER CULVERT UNCONTAMINATED STORM WATER
J	SETTING ACCESS ROAD SP-2 STORM WATER LEGENCH
	STORM FASTERN MILLSAP STORM WATER
	WATER QUARRY PIT STORM QUARY
CULVERT	
CULVERT	STORIA (QP-3) WATER CONVEYOR
SUMMERS T. CONCRETE PLANT	SP-4
UNCONTAMINATED STORM WATER	STORM WATER STORM WATER
	EPA FORM 2C - WATER MANAGEMENT SCHEMATIC TRI-CITIES AIRPORT QUARRY - SULLIVAN CO. TN.
	AGGREGATES USA (TRI-CITIES AIRPORT), LLC
	36°29'45"N 86°25'35"W 9/9/2016



TEMPERATE DEPONDENT OF BAUMENMENT AND CONSERVATION DAYS ON THE DIRECTORY

TOWN THE DIRECTORY

DATE: 1/21/20/

